

## ABSTRACT

A withstand voltage against electrostatic discharge of a high voltage MOS transistor is improved. An N<sup>-</sup>-type drain layer is not formed under an N<sup>+</sup>-type drain layer, while a P<sup>+</sup>-type buried layer is formed in a region under the N<sup>+</sup>-type drain layer. A PN junction of 5 high impurity concentration is formed between the N<sup>+</sup>-type drain layer and the P<sup>+</sup>-type buried layer. In other words, a region having low junction breakdown voltage is formed locally. The surge current flows through the PN junction into the silicon substrate before the N<sup>-</sup>-type drain layer below a gate electrode is thermally damaged. Hence, the ESD withstand voltage is improved.